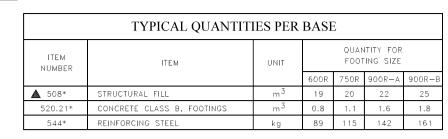
25 mm PROJECTION

Z T

TRAFFIC SIGNAL MAST ARM FOUNDATION - TYPE 2 - 600R, 750R, 900R-A, 900R-B



* ITEM NUMBERS ARE FOR SPECIFICATION REFERENCE ONLY.
NO SEPARATE PAYMENT WILL BE MADE FOR THESE ITEMS, EXCEPT
AS PROVIDED IN NOTE NO. 1 OF THE GENERAL NOTES, AND NOTE NO. 4
FOR THE EXCAVATED HOLES.

#19D1 SPACED EVENLY AROUND PERIMETER #19D1 SPACED EVENLY AROUND PERIMETER #13D2 © 150

PLAN

STANDARD ROUND TRAFFIC SIGNAL FOUNDATION DETERMINATION OF REQUIRED FOOTING SIZE MAX. h=12.2CASE 1 CASE 2 MAX. h1=6.7 MAX. h1 = 6.7FOOTING MAX. LENGTH OF ONE MAX. NUMBER MAX. LENGTH OF ONE MAX. NUMBER SIZE MAST ARM WITH ONE SHAPE OF SIGNALS SHAPE MAST ARM WITH NO OF SIGNALS LUMINAIRE ON THE FOR CASE LUMINAIRE (L) FOR CASE 2 SAME POLE (L' 600R TYPE 2 8.0 m 5.0 m (600×2.4) 750R TYPE 2 **4** | 0 0 0 0 8.0 m 11.0 m (750×2.4) 900R-A TYPE (900×2.4) 900R-B TYPE 2 0000 15.0 m 15.0 m (900×2.7) NOTE: COMBINATIONS OTHER THAN THOSE SHOWN IN THE ABOVE CHART SHALL NOT BE USED WITHOUT DESIGN APPROVAL.

GALVANIZED ANCHOR BOLTS SHALL BE SET ACCORDING TO

FINISHED GRADE

POLE MANUFACTURER'S RECOMMENDATIONS

mm Ø DUCTS

#19D1

600R TYPE 2

750R TYPE 2

900R-A TYPE 2

900R-B TYPE 2

600

750

900

ELEVATION

REINFORCING SCHEDULE

			UNBENT	
MARK	SIZE	NO.	LENGTH	TYPE
D1	#19	"X"	"Z"	
D2	#13	"W"	"Y"	ଚ

FOUNDATION SIZE	"W"	"X"	"Υ"	"Z"
600R	15	12	1825	2250
750R	15	16	2300	2250
900R-A	15	20	2775	2250
900R-B	17	20	2775	2550

	O _[A] P
STANDARD 135°	/ \ "1700
BENDS	V

DIMENSION		
D	Р	
440	1382	
590	1854	
740	2325	
740	2325	
	D 440 590 740	

GENERAL NOTES (TYPE 2 FOOTING)

- 1. THE ROUND TYPE 2 FOOTING SHALL BE POURED IN DRILLED HOLES
 AGAINST UNDISTURBED MATERIAL. THE MAXIMUM DESIGN SOIL PRESSURE
 IS 0.15 MPa (BOTH HORIZONTALLY AND VERTICALLY). IF THE SOIL IS
 NOT CAPABLE OF A BEARING PRESSURE OF 0.15 MPa OR WILL NOT STAND
 VERTICALLY, THE ENGINEER SHALL REQUEST AN EXCAVATED HOLE AS DESCRIBED
 BELOW.
- THE DRILLED HOLES FOR THE ROUND TYPE 2 FOOTING SHALL BE MADE WITH THE PROPER SIZE AUGER DRILLED TO THE PROPOSED BOTTOM OF FOOTING (2.4 m BELOW THE FINISHED GROUND SURFACE FOR 600R, 750R AND 900R—A, AND 2.7 m FOR 900R—B).
- 3. TRENCHES FOR THE CONDUITS SHALL BE HAND DUG WITHIN 1.5 m OF THE PROPOSED FOOTING SURFACE, DISTURBING AS LITTLE SOIL AS POSSIBLE IN PLACING OF THE CONDUITS (APPROXIMATELY 0.8 m MAXIMUM DOWN FROM THE EXISTING GROUND SURFACE). THE RESULTING TRENCHES SHALL BE BACKFILLED WITH STRUCTURAL FILL. THE HORIZONTAL LIMIT SHALL BE 1.5 m FROM THE FOOTING SURFACE.
- 4. THE ENGINEER SHALL REQUEST A BORING AT ANY LOCATION WHERE HE DEEMS THE SOILS TO BE QUESTIONABLE BEFORE PROCEEDING WITH THE DRILLING OPERATION. IF AFTER THE DRILLING OPERATION THE SOILS ARE NOT FOUND UNSUITABLE, THE ENGINEER SHALL REQUEST AN EXCAVETED HOLE AS DETERMINED BELOW OR THE USE OF A TYPE 1 SPREAD FOOTING.
- 5. WHERE LEDGE IS ENCOUNTERED THE DRILL SHALL PENETRATE THE LEDGE A MINIMUM OF 0.9 m AND IN ALL CASES A MINIMUM FOOTING LENGTH OF 1.5 m SHALL BE OBTAINED. MAXIMUM DRILL PENETRATION SHALL ALL BE 2.4 m FOR 600R, 750R AND 900R—A, AND 2.7 m FOR 900R—B.
- 6. ALL REINFORCING STEEL SHALL BE EITHER GRADE 300 OR GRADE 400
- 7. ALL REINFORCING STEEL SHALL BE A MINIMUM 75 mm CLEAR

▲ EXCAVATED HOLES

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS OR METERS

NUMBERS INDICATE METERS UNLESS OTHERWISE NOTED.

WHOLE NUMBERS INDICATE MILLIMETERS; DECIMAL

- AS AN ALTERNATIVE TO THE ABOVE DRILLED HOLES, THE ROUND TYPE 2 FOOTINGS MAY BE POURED IN EXCAVATED HOLES, USING THE PROPER FORMS WHICH MUST BE REMOVED, OR PRECAST AND PLACED IN THE EXCAVATED HOLES.
- 2. THE EXCAVATED HOLES SHALL BE AT LEAST 0.9 m CLEAR OF THE FOOTING SIDES AND 0.3 m DEEPER THAN THE FOOTING. CARE SHALL BE TAKEN TO AVOID OVER—EXCAVATING AROUND THE TOP OF THE FOOTING.
- 3. ANY LEDGE ENCOUNTERED SHALL BE REMOVED TO THE ABOVE LIMITS IF POSSIBLE OR THE ENGINEER SHALL REQUEST A REDESIGN.
- 4. THE TOTAL EXCAVATED HOLE FOR EACH FOOTING SHALL BE COMPLETELY BACKFILLED WITH STRUCTURAL FILL. NO PAYMENT SHALL BE MADE FOR STRUCTURAL FILL, EXCEPT AS PROVIDED IN NOTE NO. 1 OF THE GENERAL NOTES.

TRAFFIC SIGNAL STANDARD

TRAFFIC SIGNAL MAST ARM FOUNDATION - TYPE 2

STANDARD NO. TS-2

*.DGN FILE NAME

(C

METRIC TANDARD PLANS

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, CONCORD, N.H.

